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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/826,384	04/19/2004	Uwe Brede	306.43774X00	9713	
20457 75	590 12/30/2004		EXAMINER		
ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET			LEE, KYUNG S		
SUITE 1800	SEVENTEENTH STRI	3E I	ART UNIT	PAPER NUMBER	
ARLINGTON, VA 22209-9889			2832		

DATE MAILED: 12/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		W.	
	Application No.	Applicant(s)	
	10/826,384	BREDE ET AL.	
Office Action Summary	Examiner	Art Unit	
	Richard K. Lee	2832	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl' - If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tily within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS from the application to become ABANDONE.	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 14 S	eptember 2004.		
<i>,</i>	action is non-final.		
3) Since this application is in condition for allowar			
closed in accordance with the practice under E	zx parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.	
Disposition of Claims			
 4) Claim(s) 1-10 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1,3 and 10 is/are rejected. 7) Claim(s) 2, 4-9 is/are objected to. 8) Claim(s) are subject to restriction and/or 	wn from consideration.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. Setion is required if the drawing(s) is old	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	is have been received. Is have been received in Application Inity documents have been receiv Inity (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)		
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Pager No(s)/Mail Date 0804		Patent Application (PTO-152)	

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DETAILED ACTION

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by Krappel et al. (5,877,563)

Krappel et al. teaches a pyromechanical battery pole disconnect element comprising:

- a housing 22 (fig. 3);
- a pyrotechnical active element 20;
- a breaking piston with a disconnect element 18 to sever an electrical conductor 2;
- a pyrotechnic charge 10; and

the current conducting component except element 14 is formed a one-piece terminal (terminal 2 is a one-piece terminal).

Regarding claim 3, link segments (please see fig. 3;) encases the terminal and the active element.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C.: 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Krappel et al. in view of Kaltenborn et al. (6,720,858).

Krappel et al. teaches the claimed invention except for the housing being fiber-reinforced plastic. Kaltenborn et al. teaches a pyromechanical device having a fiber-reinforced housing 2 for the purpose of providing a physical integrity of the housing. It would have been obvious to one of ordinary skill in the art at the time of the invention to provide pyromechanical device of Krappel et al. with the fiber reinforced housing as taught by Kaltenborn et al., since the housing Kaltenborn et al. would provide the housing of Krappel et al. with increased physical strength.

Allowable Subject Matter

5. Claims 2 and 4-9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 2 in its entirety is neither disclosed nor suggested by the prior art of record.

Claims 4-9 depend on claim 2.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard K. Lee whose telephone number is (571) 272-1994. The examiner can normally be reached on M-TH 5:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin G. Enad can be reached on (571) 272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Richard K. Lee Primary Examiner

Art Unit 2832

12/26/04